

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/053549

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01H19/02 H01H19/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/48769 A (HILGERS ANGELA ; MOELLER GMBH (DE); KUEPPER WILFRIED (DE)) 5 July 2001 (2001-07-05) cited in the application page 6, line 32 - page 8, line 11; figures 1,5,6	1-3,10, 11,14
Y	US 5 845 365 A (HOWIE JR ROBERT K) 8 December 1998 (1998-12-08) column 4, line 45 - line 59; figure 12	7,9
Y	US 5 687 834 A (GARCIA ISMAEL ET AL) 18 November 1997 (1997-11-18) column 2, line 37 - line 64 column 3, line 32 - line 50; figures	7,9
A		1

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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*& document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

20 May 2005

07/06/2005

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Information on patent family members

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PCT/EP2004/053549

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0148769	A	05-07-2001	DE CN CZ WO EP HU JP PL US	19962291 A1 1341264 A 20013002 A3 0148769 A1 1155426 A1 0200094 A2 2003518716 T 349277 A1 2003150701 A1	28-06-2001 20-03-2002 14-11-2001 05-07-2001 21-11-2001 29-05-2002 10-06-2003 15-07-2002 14-08-2003
US 5845365	A	08-12-1998	US US US US	6568036 B1 6136248 A RE37687 E1 6391243 B1	27-05-2003 24-10-2000 07-05-2002 21-05-2002
US 5687834	A	18-11-1997		NONE	